AMENDMENT TO THE CLAIMS

Claims pending

- At time of the Action: Claims 1-4, 6, 10-20, 22-23, 25-28, 30, and 32.
- After this Response: Claims 1-4, 6, 10-20, 22-23, 25-28, 30, and 32.

Canceled or Withdrawn claims: 5, 7-9, 21, 24, 29, and 31

Amended claims: 1, 12, 14, 23, 28, 30, and 32.

New claims: None

1. **(Currently Amended)** A method comprising:

designing a distributed computer system at least in part by representing hardware and software resources of ~~a~~ the distributed computer system as model components to be included in a design for the distributed computer system, wherein the model components are selected from a group comprising:

a module that is representative of a behavior of ~~the~~ an application that is implemented using the hardware and software resources and is to be implemented by the distributed computer system under design;

a port that is representative of a service access point for the module; and

a wire that is representative of an allowable communication connection between two or more ports; and

forming, from the model components included in the design, a logical scale-independent model of ~~an~~ the application to be implemented by the distributed computer system under design.

2. **(Original)** A method as recited in claim 1, wherein each model component represents one or more similar resources.

3. **(Original)** A method as recited in claim 1, wherein each model component is depicted in a graphical user interface as a graphical icon.

4. **(Original)** A method as recited in claim 1, wherein the model components have an associated schema that specifies the hardware and software resources represented by the model components.

5. **(Canceled)**

6. **(Previously Presented)** A method as recited in claim 1, wherein the group of the model components further comprises a store that is representative of persistent data storage.

7. **(Canceled)**

8. **(Canceled)**

9. **(Canceled)**

10. **(Previously Presented)** A method as recited in claim 1, wherein the group of the model components further comprises at least one of:

a store that is representative of persistent data storage;

an event source that is representative of a logical connection point for the module or the store from which event messages originate;

an event sink that is representative of a logical connection point for the module or the store to receive the event messages; and

an event wire that is representative of an interconnection between the event source and the event sink.

11. **(Original)** A method as recited in claim 1, further comprising storing the scale-independent model on a computer-readable medium.

12. **(Currently Amended)** A method as recited in claim 1, further comprising converting the scale-independent model into a blueprint of ~~the~~ a server data center, the blueprint specifying the hardware and software resources used to physically implement the application.

13. **(Original)** A computer-readable medium storing computer-executable instructions that, when executed on a computer, perform the method of claim 1.

14. **(Currently Amended)** A method comprising:

designing a distributed computer system at least in part by:

defining individual model components as abstract functional operations that are physically implemented by one or more computers to be included in a design of the distributed computer system and one or more software programs executing on the computers, the model components having an associated schema dictating how the functional operations are specified;

interconnecting the model components to logically connect the functional operations; and

generating a scale-independent application from the interconnected model components and the associated schema; and

converting the scale-independent application into a blueprint that specifies the computers and the software programs used to physically implement the application.

15. **(Original)** A method as recited in claim 14, wherein each model component is depicted in a graphical user interface as a graphical icon.

16. **(Original)** A method as recited in claim 14, wherein the defining comprises entering, via a user interface, a description of elements needed to implement the functional operations.

17. **(Previously Presented)** A method as recited in claim 14, wherein each model component represents a set of resources provided by the computers and the software programs, the resources being scalable from one to many.

18. **(Original)** A method as recited in claim 14, wherein the model components are selected from a group comprising:

a module that is representative of a behavior of the application;

a port that is representative of a communication access point for the module; and

a wire that is representative of an interconnection between two or more ports.

19. **(Original)** A method as recited in claim 18, wherein the group of the model components further comprises:

a store that is representative of persistent data storage;

an event source that is representative of a logical connection point for the module or the store from which event messages originate;

an event sink that is representative of a logical connection point for the module or the store to receive the event messages; and

an event wire that is representative of an interconnection between the event source and the event sink.

20. **(Original)** A method as recited in claim 14, further comprising storing the application on a computer-readable medium.

21. **(Canceled)**

22. **(Original)** A computer-readable medium storing computer-executable instructions that, when executed on a computer, perform the method of claim 14.

23. **(Currently Amended)** A method comprising:

designing a distributed computer system at least in part by representing hardware and software resources of ~~a~~ the distributed computer system as model components to be included in a design for the distributed computer system, wherein the model components are selected from a group comprising:

a module that is representative of a behavior of an application that is implemented using the hardware and software resources and is to be implemented by the distributed computer system under design;

a port that is representative of a communication access point for the module; and

a wire that is representative of an interconnection between two or more ports; and

associating the model components included in the design with a schema dictating how the hardware and software resources are specified.

24. **(Canceled)**

25. **(Previously Presented)** A method as recited in claim 23, wherein the group of the model components further comprises:

a store that is representative of persistent data storage;

an event source that is representative of a logical connection point for the module or the store from which event messages originate;

an event sink that is representative of a logical connection point for the module or the store to receive the event messages; and

an event wire that is representative of an interconnection between the event source and the event sink.

26. **(Original)** A method as recited in claim 23, further comprising creating a scale-independent application from the model components and the associated schema.

27. **(Original)** A method as recited in claim 26, further comprising converting the scale-independent application into a blueprint that specifies the hardware and software resources used to physically implement the application on the distributed computer system.

28. **(Currently Amended)** A modeling system for designing a distributed computer system, comprising:

a set of model components that represent hardware and software resources to be included in a design for the distributed computer system of ~~a~~ the distributed computer system;

a schema associated with the model components that dictate how the resources are specified in the design;

a user interface to enable a developer to create a design for an application that is to be implemented by the hardware and software resources by selecting and interconnecting the model components and specifying the functionality of the model components in accordance with the schema; and

a converter to convert the application to a blueprint that specifies the hardware and software resources used to physically implement the application on the distributed computer system.

29. **(Canceled)**

30. **(Currently Amended)** A computer-readable medium comprising computer-executable instructions that, when executed on one or more processors, direct a computing device to:

enable a developer to design a distributed computer system at least in part by representing hardware and software resources of ~~a~~ the distributed computer system as model components to be included in a design for the distributed computer system;

associate the model components with a schema dictating how the hardware and software resources are specified;

create an application to be implemented by the distributed computer system by specifying the functionality of the model components in accordance with the schema and interconnecting the model components; and

convert the application to a blueprint that specifies the hardware and software resources used to physically implement the application on the distributed computer system.

31. **(Canceled)**

32. **(Currently Amended)** A system comprising:

means for enabling a developer to design a distributed computer system at least in part by representing hardware and software resources as model components to be included in a design for ~~of a~~ the distributed computer system;

means for specifying how the hardware and software resources represented by the model components are specified; and

means for selecting and interconnecting the model components and specifying the functionality of the model components to create an application to be implemented by the distributed computer system under design; and

means for converting the application to a blueprint that specifies the hardware and software resources used to physically implement the application on the distributed computer system.